

**IEEE CINCINNATI
SECTION
NEWSLETTER
FEBRUARY 2004**



FEBRUARY MEETINGS

There are two events this month: First is a tour of Harris Broadcast Communications Headquarters in Mason, OH and the second is the 69th Annual Engineers & Scientists of Cincinnati's Awards Banquet. Details on each event follow:

HARRIS TV PRESENTATION & TOUR

- DATE:** Wednesday, February 25, 2004
- PLACE:** Harris Broadcast Communications Headquarters
4393 Digital Way
Mason, Ohio (see page 4 for directions and map)
- TIME:** 5:30 p.m. Social
6:00 p.m. Light Catered Dinner at Harris
7:00 p.m. Presentation by Gary Liebisch
7:30 p.m. Tours of the Harris facility
- COST OF DINNER:** \$10.00 for Student Members
\$15.00 for Members
\$20.00 for Non-Members

Please call the Cincinnati Section Voice Mailbox at **513-629-9380**, by **Noon, Wednesday, February 18, 2004** if you plan to attend. Please leave your Name, IEEE Member Number, and a daytime telephone number. You can also make a reservation by e-mailing out Arrangements Chair, Charlie Nash, at cnash@ieee.org.

ABOUT THE MEETING: The meeting will consist first of a presentation by Mr. Gary Liebisch of Harris Corp. Gary is a Radio Transmission Applications Engineer at Harris and his discussion is entitled "HD Radio Comes of Age - Digital Terrestrial Radio in the U.S." . He will give a brief history of the development of the digital radio standard for the United States and will discuss the current rollout with broadcasters and receiver manufacturers.

His topics will include:

1. Do we really need digital radio?
2. Timeline of digital radio development in the U.S.
3. The structure of the digital radio signal and the Ibiquity standard

4. Standards setting by the NRSC and the FCC
5. Current HD radio transmission products
6. Current and future receiver features
7. Other World digital radio standards--DRM and Eureka 147.

Following the presentation, we will be given tours of their facility. Harris Corporation is an international communications equipment company focused on providing product, system, and service solutions that take its customers to the next level. The company provides wireless, broadcast, government, and network support products and systems for global communications markets. Harris has set the pace for television's transition from analog to digital technology. The RF Test Bed that they developed for the Advanced Television Test Center in 1990 enabled all digital television systems proposed for the United States to be equitably evaluated. Harris also is a leader in technology for the European-standard Digital Video Broadcasting (DVB-T) market.

69th Annual Engineers & Scientists of Cincinnati's Awards Banquet

ENGINEERS AND SCIENTISTS of GREATER CINCINNATI
invites you to attend the
69TH ANNUAL RECOGNITION and AWARDS PROGRAM
to be held on Thursday, February 26, 2004 at

**Cincinnati Museum Center
1301 Western Avenue
Cincinnati, OH**

TIME:
6:00 P.M. - Social Hour (Cash Bar)
7:00 P.M. - Dinner
8:00 P.M. - Program

COST : **\$40.00 (Includes Parking)**

This dinner is a joint meeting with the American Society of Civil Engineers (ASCE), the Ohio Society of Professional Engineers, and the Northern Kentucky Chapter of the Kentucky Society of Professional Engineers (NKSPE). In addition, many other technical and professional societies will be represented by those in attendance. Come and share experiences with other professionals, make new friends, enjoy good food and meet this year's award recipients.

Reservations: Reservations may be made by calling Linda Smith at 557-7002 or Brandi Liermann at 557-7001. You may also e-mail your reservation to: brandi.liermann@cincinnati-oh.gov or linda.l.smith@cincinnati-oh.gov. You will need to provide names for nametags.

Please make reservations by **February 20, 2004**. If a reservation is cancelled prior to the February 20th deadline, no charge will be incurred. However, if cancellation is received after the 20th we will have to ask for full payment.

- Payment:** You may pay at the registration table with either cash or check. Checks should be made payable to "ESC".
- Speaker:** The speaker for the evening will be Timothy Oppelt, Director of the National Homeland Security Research Center, Office of Research and Development, USEPA
- Questions:** If you have questions or need additional information, feel free to contact Brandi or Linda the phone numbers listed above.

2004 AWARD RECIPIENTS

RESC Lifetime Achievement Award (selected by RESC)

Distinguished Engineer Award (Herman Schneider Award)

Young Engineer of the Year Award

Young Scientist of the Year Award

Professional Accomplishment Award

Professional Accomplishment Award - Engineer in Consulting Field

Community Service Award - Engineer in Government

Professional Accomplishment - Construction

CHAIR'S MESSAGE

by Fred Nadeau, Section Chair

Our January meeting for the Section was an outstanding tour of the DHL's CVG semi-automated package and small mail handling facility at the Cincinnati International Airport. Those who were able to come received an excellent briefing and tour of a state-of-the-art electronic scanning and sorting equipment. I wish to thank our hosts at DHL for their hospitality and a truly eye-opening tour. It was readily easy to see why DHL is able to be the number one delivery service on the globe and second in the U.S. Their extra effort in control of misrouted packages has led them to a zero defects position.

At our recent Executive Committee Meeting in January, we decided on a new cost structure for our technical Section dinner meetings. Henceforth, we will charge ten dollars for Student Members, fifteen dollars for Members, and twenty dollars for non-Members. The Section will continue to subsidize the remainder of the costs for meals (over and above this schedule).

Fred Nadeau, Section Chair
E-mail: f.nadeau@ieee.org
Phone No. 937-289-2800



**Directions from Cincinnati/Northern
Kentucky Airport (CVG):**

I-275 E to I-71 N (8 miles)

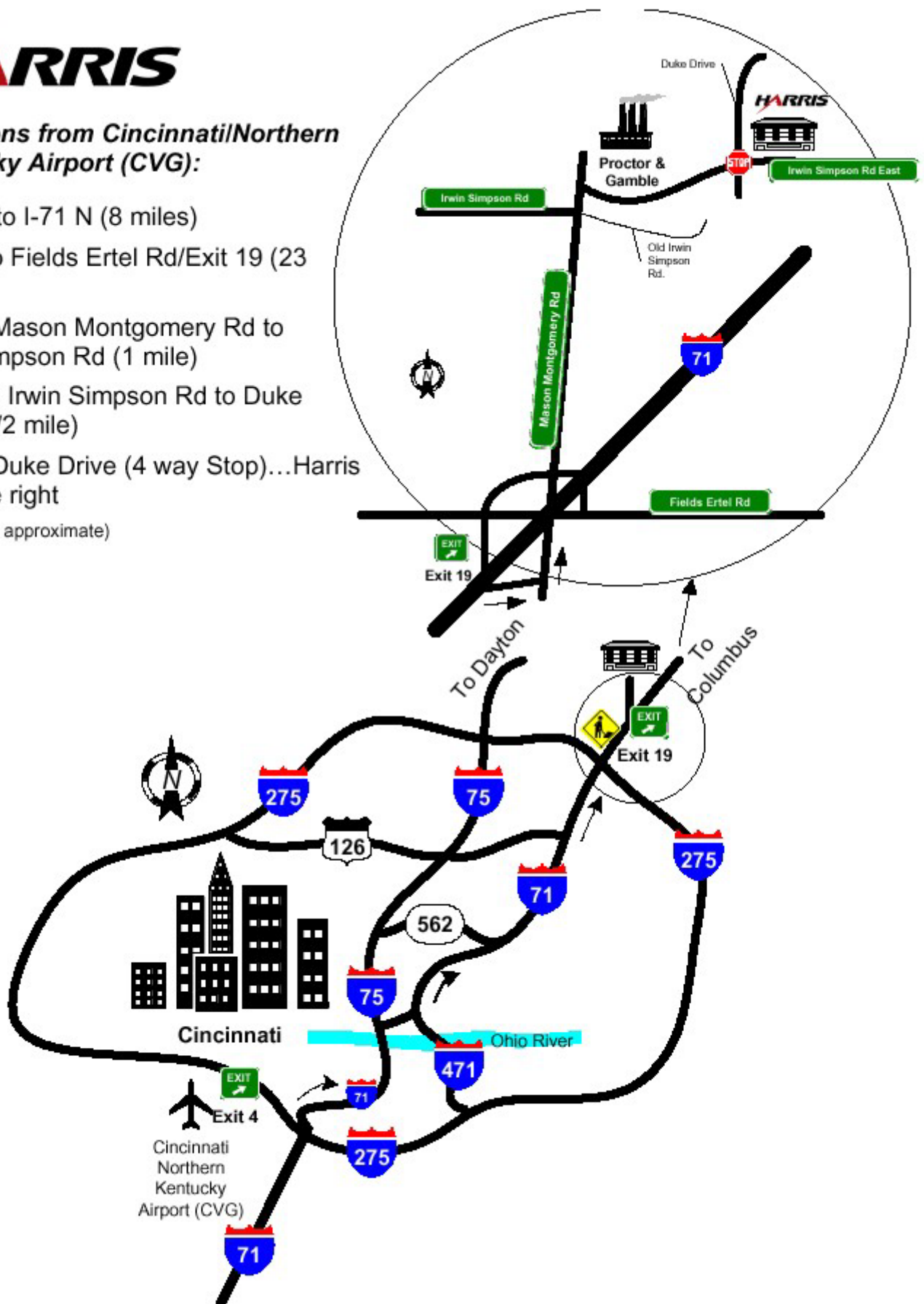
I-71 N to Fields Ertel Rd/Exit 19 (23
miles)

Left on Mason Montgomery Rd to
Irwin Simpson Rd (1 mile)

Right on Irwin Simpson Rd to Duke
Drive (1/2 mile)

Left on Duke Drive (4 way Stop)...Harris
is on the right

(Mileage is approximate)



JOB OPPORTUNITY - GENERAL MANAGER POSITION

Halcyon, an executive search firm, has been retained by an established, successful professional and technical services contractor to find a General Manager for their Virginia Beach division. Someone previously holding a Program Manager or Program Director position at a government contractor could be a very strong fit for this job. Customer relationship management and business development are two large and critical components of this role. Candidates with a BSEE degree will be given preference for this position. The successful candidate will have some commercial work experience as the company wants to continue to diversify their client base. The majority of their work currently comes from the government.

Our client has over 30 years of experience and is known for its expertise in Information Technology; Command, Control, Communications, Computers, and Intelligence (C4I); Combat Surveillance Systems; and Air Traffic Control applications. They operate from a contractual base of over \$800 million and have offices throughout the US. The Virginia Beach division generates about \$25-30 million in revenue. The General Manager of this division will have 8-9 direct reports and about 240 indirect reports.

If you are interested or know of some who may be interested, please contact Mr. Bryant Noles, Recruiting Director, Halcyon, at 1-757-410-2331, or by e-mail at bnoles@halcyonresources.com.

LETTER TO THE EDITOR

The following letter was submitted by Mr. Michel Gevers, IEEE Fellow, Former Vice-President and Member of the IEEE Control Systems Society:

Dear colleague,

You may or may not know that the IEEE Board of Directors has, for the last two years, drastically restricted its services to IEEE members from countries that are embargoed by the US government. The acceptance of government interference in the running of our Institute by the present IEEE leadership has angered many members, and there have been a flurry of individual protests. However, it appears that many if not most of the members are still unaware that the IEEE has been discriminating against some of our fellow members on the basis of their nationality or country of residence.

The issue has been discussed a few of weeks ago at the annual IEEE Conference on Decision and Control. A number of us have decided that it was time to organize an IEEE-wide reaction in order to express to the IEEE Board of Directors the depth of our concern and our strong opposition to the acceptance of government interference in the running of our Institute, and to the use of discrimination on the basis of nationality or country of residence in an international scientific organization.

As a former Vice-President for Membership Activities of the IEEE Control Systems Society, in charge of internationalization, I am particularly sensitive to this issue which threatens the future of the IEEE as an international institute. Many IEEE members present at the IEEE CDC have pressed me to take an initiative, and have helped me initiate it. Thus, we have decided to start a petition action against the decision of the IEEE Board of Directors to discriminate against IEEE members from countries that are embargoed by the US government. With the help of a few IEEE colleagues, we have written a text that we are now proposing for signature to as many IEEE members as we can reach.

May I thus ask you to go to the petition website (http://www.csam.ucl.ac.be/IEEE_Petition.pl) and to sign the petition if you agree with it. On that website and the IEEE pages to which it links, you will find full information about the embargo.

This petition was started on December 19, 2003, at the initiative of a few members from the Control Systems Society. It has already collected more than 4,000 signatures. We now wish to disseminate it to all Societies and Regions. The success of the petition, and the comments we receive, shows that many IEEE members are deeply concerned about preserving the international nature of the IEEE.

Whether or not you sign the petition, I would very much appreciate if you could pass this email on to IEEE members from your IEEE society, other IEEE societies or your local IEEE chapter.

Yours sincerely,
Michel Gevers
IEEE Fellow,
Former Vice-President, and Distinguished Member of the IEEE Control Systems Society

Scanning the Past: A History of Electrical Engineering from the Past

Submitted by Dick Reiman, Historian

Copyright 1993 IEEE. Reprinted with permission from the IEEE publication, "Scanning the Past" which covers a reprint of an article appearing in the Proceedings of the IEEE Vol. 81, No. 3, March 1993.

Louis W. Austin

Sixty-five years ago this month, the PROCEEDINGS OF THE INSTITUTE OF RADIO ENGINEERS (IRE) included a paper by Louis W. Austin in which he discussed recent investigations of radio wave propagation carried out in several countries. At the time he was serving as Chairman of the Commission on Radio Wave Propagation of the International Union of Scientific Radio Telegraphy. As a long-time employee of the Bureau of Standards in Washington, D.C., he was a frequent contributor to the PROCEEDINGS, publishing 40 technical papers in its pages between 1913 and 1932.

In his March 1928 paper, Austin noted that propagation theory had been advanced greatly during the 1920s. For example, he explained that theory now took into account the effect of the earth's magnetic field on the phase velocity of waves in the ionosphere. He also addressed the problem of measurement discrepancies resulting from field strength measurements being done in different locations by different people. He had tried to address this problem by doing intercomparisons of instruments used at the Bureau of Standards with those at the Bell Telephone Laboratories and the Radio Corporation of America. Austin reported on long-wave propagation data collected by researchers in France and Great Britain as well as the United States. He commented on the effect of solar activity on transatlantic radio and stated that he had used Bureau of Standards data accumulated since 1915 to establish correlation with the 11-year sunspot cycle. He mentioned some recent experiments using a radio echo effect to obtain information on the height of ionized layers.

Austin was born in Vermont in 1867 and graduated from Middlebury College in 1889. He continued his education in Germany where he received a Ph.D. from Strasbourg University in 1893. He taught physics at the University of Wisconsin from 1893 to 1901 and then returned to Germany, where he worked for two years at a laboratory in Berlin doing research on the properties of gases at high temperatures.

In 1904 Austin joined the Bureau of Standards, where he began the radio propagation studies that were to occupy him for the rest of his life. The U.S. Navy established a radio laboratory at the Bureau of Standards, and Austin headed it from 1908 to 1923. With a colleague, Louis Cohen, he developed what became known as the Austin-Cohen formula for predicting the strength of radio waves. Data collected during 1910 from Navy ships crossing the Atlantic provided the basis for the formula.

Austin joined the IRE in 1913 and served as the third president of the Institute in 1914. He received the IRE Medal of Honor in 1927. He served as a U.S. representative at numerous international conferences on radio and became director of a special radio laboratory at the Bureau of Standards in 1923.

Austin was described by colleagues as being "warm-hearted, modest, and quiet." As he entered a hospital for surgery just before his death, he wrote a note asking that his program of radio measurements be continued in the event that "things should not go well." Lyman I. Briggs who wrote an obituary of Austin for Science assured readers that his work was being continued. Austin died in Washington, D.C., in 1932.

*James E. Brittain
School of History, Technology, and Society
Georgia Institute of Technology*

TO SUBSCRIBE TO THE ELECTRONIC NEWSLETTER

This newsletter is only available via e-mail or the Section's web page at <http://ieee.cincinnati.fuse.net/> with the exception of new Section members (one issue only) or members who have specifically requested a copy be delivered through the U. S. Mail.

If you are a new Section member and would like to get this newsletter electronically, please contact Bob Morrison (Editor) at **513-287-3697** or by e-mail at j.r.morrison@ieee.org. Provide your name and member number. In case there are questions, please include a daytime telephone number as well.

If you would like the "Snail Mail" version, you must contact Bob Morrison via the above means or call the Section's voice mail at **513-629-9380**.

IEEE NEWS

NEWS FROM IEEE EDUCATIONAL ACTIVITIES AND THE HISTORY CENTER (1st Quarter 2004) IEEE VIRTUAL MUSEUM LAUNCHES NEW EXHIBIT.

The IEEE Virtual Museum has a new exhibit titled "World War II: How War Impacted Technology; How Technology Impacted War." It contains information on:

- * the causes of the war
- * the technologies impacted battle and changed how war is now fought
- * technologies that grew out of wartime urgency, such as radar, the jet engine, nuclear weapons and rocket technology
- * individuals who created and used wartime technology in new and innovative ways.

Visit the museum at <http://www.ieee-virtual-museum.org/>.

THREE HISTORIC ACHIEVEMENTS EACH NAMED AS AN IEEE MILESTONE.

The IEEE History Center's program most closely geared to IEEE Sections is the Milestones in Electrical Engineering and Computing. A Section proposes a local achievement of significance, prepares a carefully documented nomination, and, if approved by the IEEE History Committee and IEEE Executive Committee, dedicates a bronze plaque recognizing the honor. At their November 2003 meeting, the ExCom approved three more Milestones recommended by the History Committee, from three different Sections in three different Regions. This brings the total number of Milestones in the program to 54. The newest additions are:

- * EXPERIMENTAL BREEDER REACTOR I, 1951 (IEEE Eastern Idaho Section in Region 6)
- * DECEW FALLS HYDRO-ELECTRIC PLANT, 1898 (IEEE Hamilton Section in Region 7)
- * FLEMING VALVE, 1904 (IEEE UKRI Section in Region 8)

All three sections are planning late spring or early summer dedication ceremonies. Visit http://www.ieee.org/organizations/history_center/milestones_program.html to learn more about the Milestones Program in general and also about these specific dedications as more information becomes available.

NOMINATE A DESERVING PRE-COLLEGE EDUCATOR FOR THE EAB PRE-COLLEGE EDUCATOR AWARD.

This award recognizes current pre-college classroom teachers who have inspired an appreciation and understanding of mathematics, science and technology and the engineering process in students and have encouraged students to pursue technical careers. To learn more about this award or to submit an application, please visit <http://www.ieee.org/eab/EBAwards/awardprecollege-2004.htm>.

CALL FOR 2004 EAB AWARD NOMINATIONS

The IEEE Educational Activities Board is accepting nominations for the 2004 IEEE EAB Awards. Complete information and nomination forms are provided on the IEEE EAB Awards web site at <http://www.ieee.org/organizations/eab/arc/awards/callnominations.htm>. The deadline for nominations is April 30, 2004. Award names and descriptions are provided on the web at <http://www.ieee.org/organizations/eab/arc/awards/descriptions.htm>.

ABOUT IEEE EDUCATIONAL ACTIVITIES

The IEEE Educational Activities Board is responsible for coordinating the educational activities of the IEEE. The volunteer and staff members of IEEE Educational Activities carry out this responsibility by developing educational programs to ensure (1) The technological literacy of pre-college students, (2) the continuous maintenance and improvement of engineering education programs through active participation in accreditation activities, and (3) the development of continuing education products and services that serve the professional development and lifelong learning needs of electro-technology professionals worldwide. For more information, visit <http://www.ieee.org/organizations/eab/> or email education-services@ieee.org.

ABOUT THE IEEE HISTORY CENTER

The IEEE History Center is a staff unit of IEEE that is located not at the IEEE Operations Center, but on the nearby New Brunswick campus of Rutgers, the State University of New Jersey, which cosponsors the Center's activities. The Center's mission to preserve, research, and promote the legacy of IEEE technologies is overseen by the IEEE History Committee, a standing committee of the IEEE Executive Committee. Since most of the activities in carrying out this mission are educational in nature, the Staff Director of the History Center reports to the IEEE Managing Director for Educational Activities, and Center staff work closely with EAD staff on many programs. Those interested in more information are invited to look at the Center's website (http://www.ieee.org/history_center) or to email the Center at history@ieee.org.

"IEEE-USA Today's Engineer" Online Alert

"IEEE-USA Today's Engineer" has been updated with new content, including:

- Assignment: Overseas

The land of opportunity for today's engineers extends well beyond their own country's borders. Preparing for an overseas assignment is key to having a meaningful and enjoyable experience. Of course, adequate preparation goes beyond packing your suitcases and updating your passports. For those who go in with their eyes open, and who anticipate a positive experience, international assignments can be among the most rewarding of career opportunities. Catherine McGowan takes a look at working abroad in the latest edition of IEEE-USA Today's Engineers: <http://www.todaysengineer.org/jan04/assignment.asp>

- Protect Your New Ideas and Inventions

Since its establishment in 1790, the U.S. Patent and Trademark Office has issued more than six million patents - more than one third of them in the last 25 years. The pace of innovation is speeding up, and now more than ever, engineers need to protect their new ideas and inventions by maintaining both a technical and legal audit trail. Harry Roman offers some guidance for those who would conceive of the "the next big thing," in the latest edition of IEEE-USA Today's Engineer: <http://www.todaysengineer.org/jan04/protect.asp>

- Electric Utility Reliability: Adding Cyber Security to an Already Complex Mix

When the electric system delivers energy to the bulk of customers within accepted standards, and in the amounts desired for a reasonable price, then it is said to be reliable. But when the potential for security breaches and even large-scale terrorism gets added to the already present weather factors and equipment failures, the reliability scenario becomes far more complex. George Zobrist takes a look in the latest edition of IEEE-USA Today's Engineer: <http://www.todaysengineer.org/Jan04/reliability.asp>

- Long-Haul Truckers: Idle No More

Heavy trucks consume billions of gallons of fuel each year, much of which gets burned by powerful engines left idling to run heaters or air conditioners for their cabs. Can new technologies and legislation keep truckers comfortable while reducing fuel consumption and improving air quality? Terry Costlow looks at the issue in the latest edition of IEEE-USA Today's Engineer: <http://www.todaysengineer.org/Jan04/long-haul.asp>

Also in this issue:

- Engineering Hall of Fame: Power and the Federal Theatre Project
- Capitol Shavings: The Energy Bill -- Any Beyond
- World Bytes: What a Difference a Century Makes
- IEEE-USA President's Column

To read TE, go to: <http://www.todaysengineer.org>

**University of South Alabama Dean Becomes IEEE-USA President
Amid Concerns about the Offshoring of High-Tech Jobs**

WASHINGTON (January 23, 2004) - Dr. John W. Steadman, Dean of the College of Engineering at the University of South Alabama, became president of IEEE-USA on New Year's Day. Steadman served as the organization's president-elect in 2003.

Steadman began his one-year term concerned about the continuing transfer of engineering and other high-tech jobs overseas (offshoring), and its impact not only on U.S. IEEE members, but also on U.S. national security and economic growth. IEEE-USA is in the process of developing a formal offshoring position statement that will include public-policy recommendations.

"The problem facing the United States is not how to stop offshoring, but how to ensure that the nation remains a technology leader in the face of strong international competition fueled by offshoring American technology and intellectual property," Steadman said. "To do that, the U.S. government needs an innovative strategy that makes it advantageous for industry to create and retain high-wage, high-value-added manufacturing and service-sector jobs here."

See <http://www.ieeeusa.org/forum/issues/H1bvisa/steadmanq&a04.html> for more on Steadman's views on offshoring.

Before joining South Alabama in August 2003, Steadman served as head of the Department of Electrical and Computer Engineering at the University of Wyoming since 1989. He had worked at the university in various capacities, including faculty member and associate dean of engineering, for 32 years. Steadman also worked for General Dynamics in San Diego, and served as a distinguished visiting professor at the United States Air Force Academy.

A licensed professional engineer, Steadman was appointed to the Engineering Registration Board in Wyoming and served 16 years for three Wyoming governors. He chaired several committees in the National Council of Examiners for Engineering and Surveying (NCEES), and was president in 1993-94. His awards include the IEEE-USA Citation of Honor, the NCEES Distinguished Service Award and the AT&T Award for Excellence in Teaching.

Steadman, a native of Cody, Wyo., received his bachelor's and master's degrees in electrical engineering from the University of Wyoming, and his doctorate from Colorado State University. He has served as chair of IEEE-USA's Licensure and Registration Committee and is a former IEEE-USA vice president for career activities. As IEEE-USA president, he will work closely with Past President Jim Leonard of St. Charles, Mo., and President-Elect Gerard Alphonse of Princeton, N.J.

Steadman and his wife Sally, an engineering faculty member at South Alabama, live in Daphne, Ala.

IEEE President-elect W. Cleon Anderson to present IEEE Presidents' Scholarship

On 13 May 2004 IEEE President-elect W. Cleon Anderson will present the \$10,000 IEEE Presidents' Scholarship at the annual Intel International Science and Engineering Fair (ISEF) held this year in Portland, Oregon. The IEEE Foundation funded \$10,000 Scholarship is awarded for "outstanding achievement in crating a project that demonstrates an understanding of electrical engineering, information technologies, or other IEEE fields of interest." It is the largest award given by an organization at the Special Awards Ceremony at the Intel ISEF. The Scholarship, which is in its sixth year, is the only IEEE-wide scholarship awarded to high school students. For more information on the Scholarship and the Fair, go to www.ieee.org/eab/precollege/scholarship/ or contact Sasha Eydlin at s.eydlin@ieee.org.

The IEEE Leads National Engineers Week 2004

By Chris McManes, IEEE-USA's senior marketing communications / public relations coordinator

The IEEE is serving as lead society for National Engineers Week (EWeek) this year, February 22-28, and is helping to pave the way for expanding the celebration around the world.

"We live in an increasingly global world, so it just makes sense to expand EWeek concepts worldwide," said IEEE member and EWeek 2004 Chair Joseph V. Lillie. "We think the EWeek model we have established can serve as a blueprint for engineers around the world."

IEEE President Arthur W. Winston will help kick off the international outreach by delivering a speech to the Hong Kong Section, which will hold its first EWeek event in 2004. The New Faces of Engineering recognition program will this year include non-U.S. engineers, and an ad featuring those distinguished professionals will run in the International Herald Tribune. The ad is running courtesy of a grant from the IEEE Foundation. A similar piece will appear in The Economist magazine.

IEEE-USA is producing a New Faces of Engineering calendar with one of the 12 U.S. honorees featured each month. The group will also be recognized in a USA Today ad. All of the New Faces ads will run during EWeek

National Engineers Week, founded by the National Society of Professional Engineers in 1951, celebrates the engineering profession and the engineers whose creative work improves living standards. Its programs and activities are designed to instill pride among all engineers, increase public awareness of the key role engineers play and spark an interest in the profession among youngsters. IEEE-USA is coordinating the IEEE's lead effort.

The IEEE's corporate partner is the Fluor Corp. of Aliso, Viejo, Calif., one of the world's largest publicly owned engineering, procurement, construction and maintenance services organizations. Fluor is introducing "Connecting the World to Engineering" in 2004, a series of teleconferences designed to connect a business leader with undergraduate engineering students to engage in a live presentation and discussion of a selected engineering topic. The project will also include online interactive forums between engineering students, engineer moderators and subject matter experts.

Fluor CEO Alan L. Boeckmann will lead the first teleconference. Joe Lillie, who's also the IEEE's Regional Activities Board treasurer, will moderate. The event is slated to reach college students in Africa, Canada, Europe, South America and the United States. Doug Gorham, IEEE's precollege education manager, has arranged the participation of South Africa's University of Pretoria.

Michael N. Geselowitz, director of the IEEE History Center, contributed a brief history of electricity and link to www.discoverengineering.org to an EWeek bookmark; and a hands-on activity on the back of the EWeek poster. He recommends a visit to the IEEE Virtual Museum (<http://www.ieee-virtual-museum.org/>) for exhibits on technologies that use electricity and magnetism.

The IEEE Women in Engineering affinity group is promoting Introduce a Girl to Engineering Day (http://www.eweek.org/site/News/Eweek/real_benefit.shtml) on February 26. The goal is to mobilize a target of 11,000 women engineers, who along with their male colleagues, will reach out to an estimated one million girls that day and throughout the year. IEEE-USA volunteer Joey Duvall is chairing this year's event. She hopes it interests more girls in the profession, and supports a national effort to increase the ranks of engineers in the U. S.

"The heart and soul of Introduce a Girl to Engineering Day are the young women we inspire," said Duvall, an RF systems engineer at Lockheed Martin in Orlando, Fla. "I've had a great deal of support from key role models throughout my journey, and I never doubted I could become an engineer. That's the message I hope to give to my younger, future colleagues."

Although not scheduled during EWeek, the IEEE will participate in a United Nations briefing, "Girls and Technology: New Educational Opportunities," on March 25 in New York (<http://www.un.org/dpi/ngosection/janmar04.pdf>). Sylvia Wilson-Thomas, former chair of IEEE-USA's Career & Workforce Policy Committee, will speak at the event.

Because of the IEEE's support, the Future City Competition, which IEEE-USA introduced to EWeek in 1993, is able to bring three additional teams to its national finals in Washington. Future City is up to 34 U.S. regions and reaches more than 30,000 middle-school students. Pilot programs have been started in Egypt, India, Japan and Sweden. For more information, visit www.futurecity.org.

Also in the nation's capital, the IEEE's Lillie will promote EWeek through a nationwide radio media tour, and will help judge the final portion of the Future City national competition. IEEE-USA will present its Best Communications System award at the competition for the fourth consecutive year, and IEEE members Dominique Green and Lowell Smith will work as judges.

The IEEE Life Member Committee is funding a longitudinal study to see where Future City alumni have landed professionally, and to conduct a demographic analysis of current participants. The study is designed to serve as a fund-raising tool so potential sponsors can see evidence of Future City's success.

IEEE-USA and IEEE Spectrum magazine commissioned a survey of members and student members to find out what they like about engineering. Spectrum will feature the findings in its February issue.

For more information on how to get involved in EWeek, visit www.eweek.org or www.ieeeusa.org/eweek. An EWeek engineer volunteer kit is available at <http://www.eweek.org/site/Engineers/kit.shtml>.

The IEEE also invites you to the National Building Museum in Washington for EWeek's Zoom into Engineering Family Festival on February 21. The event runs from 10 a.m. to 4:30 p.m., and admission is free.

The Family Festival is designed to kick off EWeek activities in the nation's capital. It brings together multiple societies to provide hands-on engineering activities and expose children and adults to the ways engineers improve our standard of living. Youngsters can build bridges, solve design challenges and create skyscrapers in a LEGO construction zone; cast members from the popular children's television show Zoom will perform a couple short skits and sign autographs.

Members of the U.S. military will demonstrate the key role engineering plays in our nation's defense, and a FIRST Robotics competition will display children using their brainpower. NASA representatives will be on hand to discuss how its engineers successfully landed two rovers on Mars – more than 100 million miles from earth.

IEEE members will be on-hand to demonstrate how small electric motors operate and answer questions about careers in engineering and other high-tech professions. Giveaways will include a calendar highlighting the 12 2004 nominees for EWeek's New Faces of Engineering recognition program.

The IEEE helped to launch the first Family Festival when the organization last served as lead society (1993). Without the financial support of the IEEE and international design-build firm BE&K, this year's event would not take place. Two years ago, the festival attracted a National Building Museum-record 5,000 people.

The IEEE Cincinnati Section Executive Committee

Member Names and Phone Numbers

Cincinnati Section Voice Mail	513-629-9380 (call for meeting reservations)
Section Web Page	Http://ieee.cincinnati.fuse.net/
Fred Nadeau - Chair	937-289-2800, f.nadeau@ieee.org (E-mail)
Jim Everly - Vice Chair	513-556-4241, j.everly@ieee.org (E-mail)
Laurie Tappel - Treasurer	513-397-6383, laurie.tappel@cinbell.com (E-mail)
Ron Harbaugh - Secretary	513-769-3781, ron.harbaugh@ieee.org (E-mail)
Max Rabiee - PACE Chair	513-556-4202, max.rabiee@uc.edu (E-Mail)
Steve Olenick - Member-At-Large	513-554-2059 (Office), 513-642-3220 (Fax), steveo@nsseng.com (E-mail)
Marie Nemier - Member-At-Large	513-528-7900, Ext. 137, mnemier@trentec.com (E-mail)
Charlie Nash - Arrangements Chairman	513-723-3849, cnash@ieee.org (E-mail)
Randy Holt – Membership	859-572-5710 (Office), Holthr@nku.edu (E-mail)
Bob Morrison - Editor	513-287-3697 (Office), 513-287-4155 (Fax), j.r.morrison@ieee.org (E-mail)